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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/993,208	11/16/2001	Jinbao Jiao	AP01979	8084	
22917	7590 02/26/2003				
MOTOROLA, INC.			EXAMINER		
IL01/3RD	LGONQUIN ROAD		AFTERGU	AFTERGUT, JEFF H	
SCHAUMBU	RG, IL 60196		ART UNIT	PAPER NUMBER	
			1733	9	
			DATE MAILED: 02/26/2003	$\alpha$	

Please find below and/or attached an Office communication concerning this application or proceeding.

Y		A-S
	Application No.	Applicant(s)
	09/993,208	JIAO ET AL.
Office Action Summary	Examiner	Art Unit
	Jeff H. Aftergut	1733
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet w	ith the correspondence address
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communication  - If the period for reply specified above is less than thirty (30) days,  - If NO period for reply is specified above, the maximum statutory provided to reply within the set or extended period for reply will, by  - Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).  Status	ON. FR 1.136(a). In no event, however, may a on. a reply within the statutory minimum of thir beriod will apply and will expire SIX (6) MON statute, cause the application to become Al	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
1) Responsive to communication(s) filed on	•	
2a) This action is <b>FINAL</b> . 2b)	This action is non-final.	
3) Since this application is in condition for a closed in accordance with the practice un Disposition of Claims		
4)⊠ Claim(s) <u>1-20</u> is/are pending in the applic	ation.	
4a) Of the above claim(s) is/are with		
5) Claim(s) is/are allowed.		
6) Claim(s) is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) 1-20 are subject to restriction and	d/or election requirement.	
Application Papers		
9) The specification is objected to by the Exa	miner.	
10)☐ The drawing(s) filed on is/are: a)☐	accepted or b)☐ objected to by t	the Examiner.
Applicant may not request that any objection	to the drawing(s) be held in abey	ance. See 37 CFR 1.85(a).
11) The proposed drawing correction filed on _	is: a)□ approved b)□ c	disapproved by the Examiner.
If approved, corrected drawings are required	in reply to this Office action.	
12)☐ The oath or declaration is objected to by th	e Examiner.	
Priority under 35 U.S.C. §§ 119 and 120		
13) Acknowledgment is made of a claim for fo	reign priority under 35 U.S.C.	§ 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:		
1. Certified copies of the priority docur	ments have been received.	
2. Certified copies of the priority docur	ments have been received in A	application No
<ul> <li>3. Copies of the certified copies of the application from the International</li> <li>* See the attached detailed Office action for a second content of the certified copies of the application from the certified copies of the application from the certified copies of the application from the certified copies of the certified copi</li></ul>	al Bureau (PCT Rule 17.2(a)).	-
14) ☐ Acknowledgment is made of a claim for dor	•	•
a) ☐ The translation of the foreign languag 15)☐ Acknowledgment is made of a claim for do	e provisional application has b	een received.
Attachment(s)		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-94: 3) Information Disclosure Statement(s) (PTO-1449) Paper No.	8) 5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)

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## Election/Restrictions

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

I. Claims 1-12, drawn to a method of joining a printed circuit board to an underlying

substrate, classified in class 156, subclass 196.

II. Claims 13-20, drawn to an electronic module, classified in class 361, subclass

752.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions I and II are related as process of making and product made. The inventions

are distinct if either or both of the following can be shown: (1) that the process as claimed can be

used to make other and materially different product or (2) that the product as claimed can be

made by another and materially different process (MPEP § 806.05(f)). In the instant case the

product as claimed could be manufactured by another and materially different process such as

one which incorporated a preformed partially cured film of epoxy resin which was applied to the

rigidizer followed by application of the flexible board and final cure. Additionally, one could

manufacture the finished product by applying a liquid adhesive, applying the flexible board and

employing a single curing step.

3. Because these inventions are distinct for the reasons given above and have acquired a

separate status in the art as shown by their different classification, restriction for examination

purposes as indicated is proper.

4. Because these inventions are distinct for the reasons given above and have acquired a

separate status in the art because of their recognized divergent subject matter, restriction for

examination purposes as indicated is proper.

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5. This application contains claims directed to the following patentably distinct species of the claimed invention: the various species of adhesive employed cured in the process by heat (claim10), ultraviolet radiation exposure (claim 11), and multiple curing mechanisms wherein at least two of the curing mechanisms are different from each other (claim 12).

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 1-9 and 13-20 are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

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- 6. Applicant is advised that election of the invention of Group I additionally requires election of one of the above identified species (the various mechanisms used to cure the adhesive). Likewise, should applicant chose to add additional claims relating to the article of manufacture which include the identified species the applicant is required to provide an election of species relating to the specific mechanisms used to cure the adhesive. Such is required in order for the election to be complete.
- 7. A telephone call was made to Steven Mays and Thomas Miller on 2-20-02 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

8. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeff H. Aftergut whose telephone number is 703-308-2069. The examiner can normally be reached on Monday-Friday 6:30-3:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael W. Ball can be reached on 703-308-2058. The fax phone numbers for the

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organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

Primary Examiner
Art Unit 1733

JHA February 23, 2003